

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,897,597 B2
APPLICATION NO. : 10/595103
DATED : March 1, 2011
INVENTOR(S) : Kyle J Lindstrom

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

List of References

- **Title Page 5, Col. 2 (Other Publications), Line 2** - Delete “Ammonial/Potassium” and insert -- Ammonia/Potassium --, therefor.
- **Title Page 6, Col. 1 (Other Publications), Line 21** - Delete “a ,” and insert -- al., --, therefor.
- **Title Page 6, Col. 1 (Other Publications), Line 62** - Delete “at,” and insert -- al., --, therefor.
- **Title Page 6, Col. 2 (Other Publications), Line 43** - Delete “of” and insert -- et --, therefor.
- **Title Page 6, Col. 2 (Other Publications), Line 53** - Delete “al,” and insert -- al., --, therefor.
- **Title Page 6, Col. 2 (Other Publications), Line 55** - Delete “Chmica” and insert -- Chimica --, therefor.
- **Title Page 7, Col. 1 (Other Publications), Line 12** - Delete “a,” and insert -- al., --, therefor.
- **Title Page 7, Col. 2 (Other Publications), Line 28** - Delete “Hydocarbons” and insert -- Hydrocarbons --, therefor.
- **Title Page 7, Col. 2 (Other Publications), Line 62** - Delete “Napthyridines Hydroxynaphthyridies,” and insert -- Naphthyridines Hydroxynaphthyridines, --, therefor.
- **Title Page 8, Col. 1 (Other Publications), Line 6** - Delete “Gessellschaft” and insert -- Gesellschaft --, therefor.
- **Title Page 8, Col. 1 (Other Publications), Line 40** - Delete “al,” and insert -- al., --, therefor.

Signed and Sealed this
Twenty-first Day of June, 2011



David J. Kappos
Director of the United States Patent and Trademark Office

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- **Title Page 8, Col. 1 (Other Publications), Line 68** - Delete “Stablized” and insert -- Stabilized --, therefor.
- **Title Page 8, Col. 2 (Other Publications), Line 7** - Delete “nti-inflammatory” and insert -- anti-inflammatory --, therefor.
- **Title Page 9, Col. 1 (Other Publications), Line 47** - Delete “Dermatologi;” and insert -- Dermatology; --, therefor.
- **Title Page 9, Col. 2 (Other Publications), Line 1** - Delete “Structure-Activtiy” and insert -- Structure-Activity --, therefor.
- **Title Page 9, Col. 2 (Other Publications), Line 37** - Delete “Imnnunol.” and insert -- Immunol. --, therefor.
- **Title Page 9, Col. 2 (Other Publications), Line 56** - Delete “Hely” and insert -- Helv --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 17** - Delete “2-arylpyrazolo” and insert -- 2-arylpyrazolo --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 24** - Delete “imizazo” and insert -- imidazo --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 25** - Delete “nucleosides:fficient” and insert -- nucleosides: efficient --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Lines 53-54** - Delete “Assymmetry.” and insert -- Asymmetry. --, therefor.
- **Title Page 10, Col. 1 (Other Publications), Line 60** - Delete “Bacteroids” and insert -- Bacteroides --, therefor.
- **Title Page 10, Col. 2 (Other Publications), Line 35** - Delete “lipoxygenase” and insert -- lipoxygenase --, therefor.
- **Title Page 11, Col. 2 (Other Publications), Line 1** - Delete “IsosteriC” and insert -- Isosteric --, therefor.
- **Title Page 11, Col. 2 (Other Publications), Line 5** - Delete “at.,” and insert -- al., --, therefor.
- **Title Page 11, Col. 2 (Other Publications), Line 6** - Delete “Tray” and insert -- Trav --, therefor.

- Title Page 11, Col. 2 (Other Publications), Line 58 - Delete “ofHeterocyclic” and insert -- of Heterocyclic --, therefor.

Specification

- Column 4, Line 24, - Delete “-N(R₈)C(R₆)-” and insert -- -N(R₈)-C(R₆)- --, therefor.
- Column 4, Line 32, - Delete “substitutents;” and insert -- substituents; --, therefor.
- Column 6, Line 5, - After “of” insert -- : --.
- Column 11, Line 41, - Below “- X'-R₄₋₁,” insert -- -X'-Y'-R₄, --.
- Column 15, Line 33, - Delete “C-,” and insert -- O-, --, therefor.
- Column 17, Line 46, - Delete “substitutent.” and insert -- substituent. --, therefor.
- Column 19, Line 1, - Delete “-2#-” and insert -- -2H- --, therefor.
- Column 19, Line 11, - Delete “-C(R₆₁)-,” and insert -- -C(R₆)-, --, therefor.
- Column 19, Lines 34-35, - Delete “4-(1,1-dioxidoisothiazohdin-2-yl)butyl,” and insert -- 4-(1,1-dioxidoisothiazolidin-2-yl)butyl, --, therefor.
- Column 19, Line 45, - Delete “Cl₁₋₂” and insert -- C₁₋₂ --, therefor.
- Column 19, Lines 49-50, - Delete “methylammocarbonylaminomethyl.” and insert -- methylaminocarbonylaminomethyl. --, therefor.
- Column 20, Line 62, - Before “some” insert -- In --.
- Column 24, Line 43, - Delete “-3-nitroquinolin” and insert -- -3-nitroquinoline --, therefor.
- Column 25, Line 67, - Delete “3-amino” and insert -- 3-amido --, therefor.
- Column 26, Line 17, - Delete “L” and insert -- I, --, therefor
- Column 26, Line 19, - Delete “-5H-” and insert -- -5N- --, therefor
- Column 26, Line 30, - Delete “animated” and insert -- aminated --, therefor.
- Column 29, Line 18, - Delete “n,” and insert -- II, --, therefor.
- Column 29, Line 42, - Delete “animated” and insert -- aminated --, therefor.

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- Column 29, Line 49, - Delete “TV-oxide” and insert -- N-oxide --, therefor.
- Column 29, Line 54, - Delete “men” and insert -- then --, therefor.
- Column 30, Line 28, - Delete “XXXI” and insert -- XXXI, --, therefor.
- Column 30, Line 46, - Delete “N=O” and insert -- N=C=O --, therefor.
- Column 30, Line 64, - Delete “R₉,” and insert -- R₈, --, therefor.
- Column 33, Line 50, - Delete “animated” and insert -- aminated --, therefor.
- Column 34, Line 60, - Delete “Ar,” and insert -- Ar' --, therefor.
- Column 36, Line 41, - Delete “animated” and insert -- aminated --, therefor.
- Column 37, Line 2, - Delete “inline” and insert -- imine --, therefor.
- Column 38, Line 64, - Delete “animated” and insert -- aminated --, therefor.
- Column 39, Line 62, - Delete “Methylamine” and insert -- triethylamine --, therefor.
- Column 41, Line 41, - Delete “(TL).” and insert -- (IL). --, therefor.
- Column 41, Line 43, - Delete “DL-1,” and insert -- IL-1, --, therefor.
- Column 42, Line 39, - Delete “HSV-H,” and insert -- HSV-II, --, therefor.
- Column 42, Line 47, - Delete “flavivirus” and insert -- flavivirus --, therefor.
- Column 42, Lines 60-61, - Delete “histoplasmonsis,” and insert -- histoplasmosis, --, therefor.
- Column 42, Lines 62-63, - Delete “carnii pneumonia,” and insert -- carinii pneumonia, --, therefor.
- Column 42, Line 67, - Delete “Kaposi’s” and insert -- Kaposi’s --, therefor.
- Column 43, Line 9, - Delete “Ommen’s syndrome,” and insert -- Omenn’s syndrome, --, therefor.
- Column 43, Line 25, - Delete “hemophilus” and insert -- haemophilus --, therefor.
- Column 44, Line 52, - Delete “phenylamino” and insert -- phenylimino --, therefor.

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- Column 44, Line 60, - Delete “phenylamino” and insert -- phenylimino --, therefor.
- Column 46, Line 40, - Delete “1.5” and insert -- 7.5 --, therefor.
- Column 47, Line 59, - Delete “an” and insert -- as an --, therefor.
- Column 48, Line 44, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 49, Line 63, - Delete “(d” and insert -- (d, J= --, therefor.
- Column 53, Line 16, - Delete “w/z” and insert -- m/z --, therefor.
- Column 53, Line 57, - Delete “-1/Z-” and insert -- -1H- --, therefor.
- Column 55, Line 45, - Delete “-2-pro” and insert
--2-propyl-1H-imidazo[4,5-c]quinolin-4-amine --, therefor.
- Column 55, Line 58, - Delete “(trifluoromethyl)” and insert -- (trifluoromethyl) --, therefor.
- Column 55, Lines 62-63, - Delete “(trifluoromethyl)” and insert -- (trifluoromethyl) --, therefor.
- Column 56, Line 21, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 62, Line 49, - Delete “(septet 7=” and insert -- (septet J= --, therefor.
- Column 62, Line 49, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 64, Line 17, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 64, Line 20, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 64, Line 21, - Delete “(q, 7=” and insert -- (q, J= --, therefor.
- Column 64, Line 21, - Delete “(septet, 7=” and insert -- (septet, J= --, therefor.
- Column 64, Line 22, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 64, Line 22, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 65, Line 11, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 65, Line 12, - Delete “(d, 7=” and insert -- (d, J= --, therefor.
- Column 65, Line 13, - Delete “(d, 7=” and insert -- (d, J= --, therefor.

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- Column 65, Line 14, - Delete “(q, 7=” and insert -- (q, J= --, therefor.
- Column 65, Line 14, - Delete “(septet, 7=” and insert -- (septet, J= --, therefor.
- Column 65, Line 15, - Delete “(t, 7=” and insert -- (t, J= --, therefor.
- Column 66, Line 27, - Delete “(d, 0.7=” and insert -- (d, J= --, therefor.
- Column 68, Line 2, - Delete “by/7-” and insert -- by p- --, therefor.
- Column 70, Line 45, - Delete “g” and insert -- g, --, therefor.
- Column 70, Line 47, - Delete “dichloromethane methanol” and insert -- dichloromethane:methanol --, therefor.
- Column 72, Line 19, - Delete “(3-nitrophenoxy-2-” and insert -- (3-nitrophenoxy)-2- --, therefor.
- Column 76, Line 8, - Delete “-imidazo” and insert -- imidazo[4,5-c]quinoline --, therefor.
- Column 78, Line 63, - Delete “TV-” and insert -- N- --, therefor.
- Column 79, Line 33, - Delete “7V” and insert -- N- --, therefor.
- Column 81, Line 59, - Delete “(pentet,” and insert -- (pentet, J= --, therefor.
- Column 81, Line 62, - Delete “8159.0,” and insert -- δ159.0, --, therefor.
- Column 84, Line 30, - After “(2-methoxyethyl)” delete “-1H”.
- Column 86, Line 48, - Delete “added,” and insert -- added --, therefor.
- Column 89, Line 17, - Delete “7V-” and insert -- N- --, therefor.
- Column 89, Line 18, - Delete “-N⁴-” and insert -- -N- --, therefor.
- Column 89, Line 21, - Delete “-5-” and insert -- -3- --, therefor.
- Column 89, Line 59, - Delete “H” and insert -- I --, therefor.
- Column 90, Line 44, - Delete “0° C.;” and insert-- ~0° C.; --, therefor.
- Column 90, Line 64, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 91, Line 23, - Delete “362.1134” and insert -- 362.1734 --, therefor.

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- Column 92, Line 2, - Delete “animate” and insert -- aminate --, therefor.
- Column 92, Line 8, - Delete “(d,7=” and insert -- (d,J= --, therefor.
- Column 92, Line 13, - Delete “5153.6,” and insert -- δ153.6, --, therefor.
- Column 92, Line 43, - Delete “-methylquinoline-” and insert -- -methylquinoline-3,4- --, therefor.
- Column 92, Line 49, - Delete “0° C.,” and insert -- ~0° C., --, therefor.
- Column 93, Line 14, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 94, Lines 42-43, - Delete “dichloromemane:methanol).” and insert -- dichloromethane:methanol). --, therefor.
- Column 97, Line 41, - Delete “quinolin e” and insert -- quinoline --, therefor.
- Column 97, Line 53, - Delete “(pentet,” and insert -- (pentet, J= --, therefor.
- Column 98, Line 30, - Delete “quinolin” and insert -- quinoline --, therefor.
- Column 101, Line 7, - Delete “-1/J-” and insert -- -1H- --, therefor.
- Column 101, Line 10, - Delete “horn;” and insert -- hour --, therefor.
- Column 102, Line 42, - Delete “nitroquinoline” and insert -- Nitroquinoline-4-amine --, therefor.
- Column 103, Line 4, - After “but the” delete “ 1”.
- Column 106, Line 15, - Delete “(APCI)/w/z” and insert -- “(APCI) m/z --, therefor.
- Column 108, Line 50, - Delete “.0.20H₂O:” and insert -- .0.20 H₂O: --, therefor.
- Column 111, Line 52, - Delete “N{4” and insert -- N-{4 --, therefor.
- Column 113, Line 35, - Delete “butyl}-” and insert -- butyl} --, therefor.
- Column 114, Line 43, - Delete “.0.15H₂O:” and insert -- .0.15 H₂O: --, therefor.
- Column 115, Line 46, - Delete “¹³H” and insert -- ¹H --, therefor.
- Column 116, Line 67, - Delete “(t,7=” and insert -- (t,J= --, therefor.

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- Column 120, Line 52, - Delete “.0.25H₂O:” and insert -- .0.25 H₂O: --, therefor.
- Column 122, Line 40, - Delete “.0.50H₂O:” and insert -- .0.50 H₂O: --, therefor.
- Column 122, Line 66, - Delete “.0.25H₂O:” and insert -- .0.25 H₂O: --, therefor.
- Column 123, Line 24, - Delete “.0.77H₂O:” and insert -- .0.77 H₂O: --, therefor.
- Column 123, Line 46, - Delete “.0.50H₂O:” and insert -- .0.50 H₂O: --, therefor.
- Column 124, Line 2, - Delete “.0.75H₂O:” and insert -- .0.75 H₂O: --, therefor.
- Column 125, Line 3, - Delete “Anal,” and insert -- Anal. --, therefor.
- Column 126, Line 8, - Delete “animate” and insert -- aminate --, therefor.
- Column 128, Line 44, - Delete “H-” and insert -- N- --, therefor.
- Column 130, Line 39, - Delete “5-c]” and insert -- 5- α] --, therefor.
- Column 131, Line 37, - Delete “8-(Benzoyloxy)” and insert -- 8-(Benzoyloxy) --, therefor.
- Column 138, After Line 67, - Insert
-- from acetonitrile to give 102 mg of 7-(furan-3-ylmethoxy)-2-methyl-1-(2-methylpropyl)-1H-imidazo[4,5-c]quinolin-4-amine as a white powder, mp 181.0-183.0.
MS (APCI) m/z 351 (M+H)⁺;
Anal. Calcd. for C₂₀H₂₂N₄O₂: 0.6 CH₃CN: % C, 67.89; % H, 6.40; % N, 17.18.
Found: % C, 67.72; % H, 6.67; % N, 16.95. --.
- Column 140, Line 20, - Delete “.0.55H₂O:” and insert -- .0.55 H₂O: --, therefor.
- Column 142, Line 17, - Delete “.0.33H₂O:” and insert -- .0.33 H₂O: --, therefor.
- Column 142, Line 57, - Delete “triethylamine,” and insert -- triethylamine, --, therefor.
- Column 148, Line 66, - Delete “amine,” and insert -- amine. --, therefor.
- Column 153, Line 44, - Delete “.0.5H₂O:” and insert -- .0.5 H₂O: --, therefor.
- Column 154, Lines 3-4, - Delete “thiazoleHCl” and insert -- thiazole.HCl --, therefor.
- Column 157, Line 41, - Delete “-benzoyloxy-” and insert -- -benzoyloxy- --, therefor.
- Column 157, Line 61, - Delete “triethylamine.” and insert -- triethylamine. --, therefor.

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- Column 158, Line 59, - Delete “-1,1-” and insert -- -1-yl)-1,1- --, therefor.
- Column 160, Line 52, - Delete “-methylethyl]-” and insert-- -dimethylethyl]- --, therefor.
- Column 165, Line 6, - Delete “(q, 7=” and insert -- (q, J= --, therefor.
- Column 165, Line 12, - Delete “.0.12H₂O:” and insert -- .0.12 H₂O: --, therefor.
- Column 167, Line 53, - Delete “phenylamino]” and insert -- phenylimino] --, therefor.
- Column 169, Line 35, - Delete “7=” and insert -- J= --, therefor.
- Column 172, Line 47, - Delete “Anal,” and insert -- Anal. --, therefor.
- Column 172, Line 55, - Delete “mmol.” and insert -- mmol, --, therefor.
- Column 174, Line 4, - Delete “Anal,” and insert -- Anal. --, therefor.
- Column 178, Line 14, - Delete “acid/acetonitrile:” and insert -- acid/acetonitrile; --, therefor.
- Column 188, Line 61, - Delete “phenylthiocarbamoyl” and insert -- phenylthiocarbamyl --, therefor.
- Column 191, Line 18, - Delete “-2#-” and insert -- -2H- --, therefor.
- Column 192, Line 6, - Delete “animate” and insert -- aminate --, therefor.
- Column 203, Line 11, - Delete “microliter” and insert -- microtiter --, therefor.

Claims

- Column 205, Line 62, - In Claim 1, delete “independently-selected” and insert -- independently selected --, therefor.
- Column 208, Line 20, - In Claim 13, after “alkenyl” insert -- , --.
- Column 208, Line 36, - In Claim 13, delete “front” insert -- from --, therefor.
- Column 208, Line 51, - In Claim 13, delete “independently-selected” and insert -- independently selected --, therefor.
- Column 209, Line 55, - In Claim 21, delete “2-hydroxyl” and insert -- 2-hydroxy --, therefor.
- Column 210, Line 27, - In Claim 25, delete “-X-” and insert -- -X'- --, therefor.

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- **Column 212, Line 15,** - In Claim 25, delete “front” insert -- from --, therefor.
- **Column 212, Line 40,** - In Claim 25, delete “that,” and insert -- that --, therefor.
- **Column 212, Line 67,** - In Claim 27, delete “4-[(methasulfonyl)ammo]butyl,” and insert -- 4-[(methylsulfonyl) amino]butyl, --, therefor.
- **Column 213, Line 20,** - In Claim 33, after “biosynthesis” delete “in an animal”.
- **Column 213, Line 38,** - In Claim 34, delete “-R₄₋₁;” and insert -- -R₄₋₁, --, therefor.
- **Column 213, Line 39,** - In Claim 34, delete “-R₄₋₁;” and insert -- -X¹-R₄₋₁, --, therefor.
- **Column 213, Line 47,** - In Claim 34, delete “group,” and insert -- group --, therefor.
- **Column 214, Line 45,** - In Claim 34, delete “alkylheteroarylenyl” and insert -- alkylheteroarylenyl, --, therefor.
- **Column 214, Line 46,** - In Claim 34, delete “can the” and insert -- can be --, therefor.
- **Column 214, Line 57,** - In Claim 34, after “alkynyl” insert -- , --.
- **Column 215, Line 20,** - In Claim 34, delete “-O and -S-;” and insert -- =O and =S; --, therefor.
- **Column 215, Line 55,** - In Claim 35, delete “R₄” and insert -- R₄ is --, therefor.
- **Column 216, Line 43,** - In Claim 36, delete “alkylamino, and” and insert -- alkylamino, and --, therefor.
- **Column 216, Line 48,** - In Claim 36, delete “of;” and insert -- of: --, therefor.
- **Column 218, Line 54,** - In Claim 38, delete “R₅” and insert -- R₅ --, therefor.
- **Column 220, Line 1,** - In Claim 43, delete “salf” and insert -- salt --, therefor.